

**ISOLATION PROCEDURE AND OPTIMIZED MEDIA SOLUTION TO
ENHANCE LONG-TERM SURVIVAL OF CELLS**

Abstract

5 Isolation, enhanced yield, and maintenance (e.g., culture) methods for cells, e.g., cardiomyocytes, which maintain the structural and functional characteristics of freshly isolated cells are disclosed. Such methods can be used for developing long-term maintenance/cultures of cardiac myocytes which can be used in, for example, *in vitro* gene transfer, protein expression studies, and small molecule or drug screening, 10 testing, toxicological study. Optimized media solutions to enhance long-term survival of acutely isolated cells are also provided.

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